

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P302491

Luminaire Tested: **FSP-14-30HE-35-CP187**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P302491  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-14-30HE-35-CP187  
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .187"  
Light Source: (224) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: 

<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
AS-5443-2	Good	REFLECTOR
AS-5443-3	Good	DRIVER
AS-5443-4	Good	UPPER MODULE
AS-5443-5	Good	LENS
AS-5443-6	Good	DRIVER 2
AS-5443-7	Good	TRIM RING

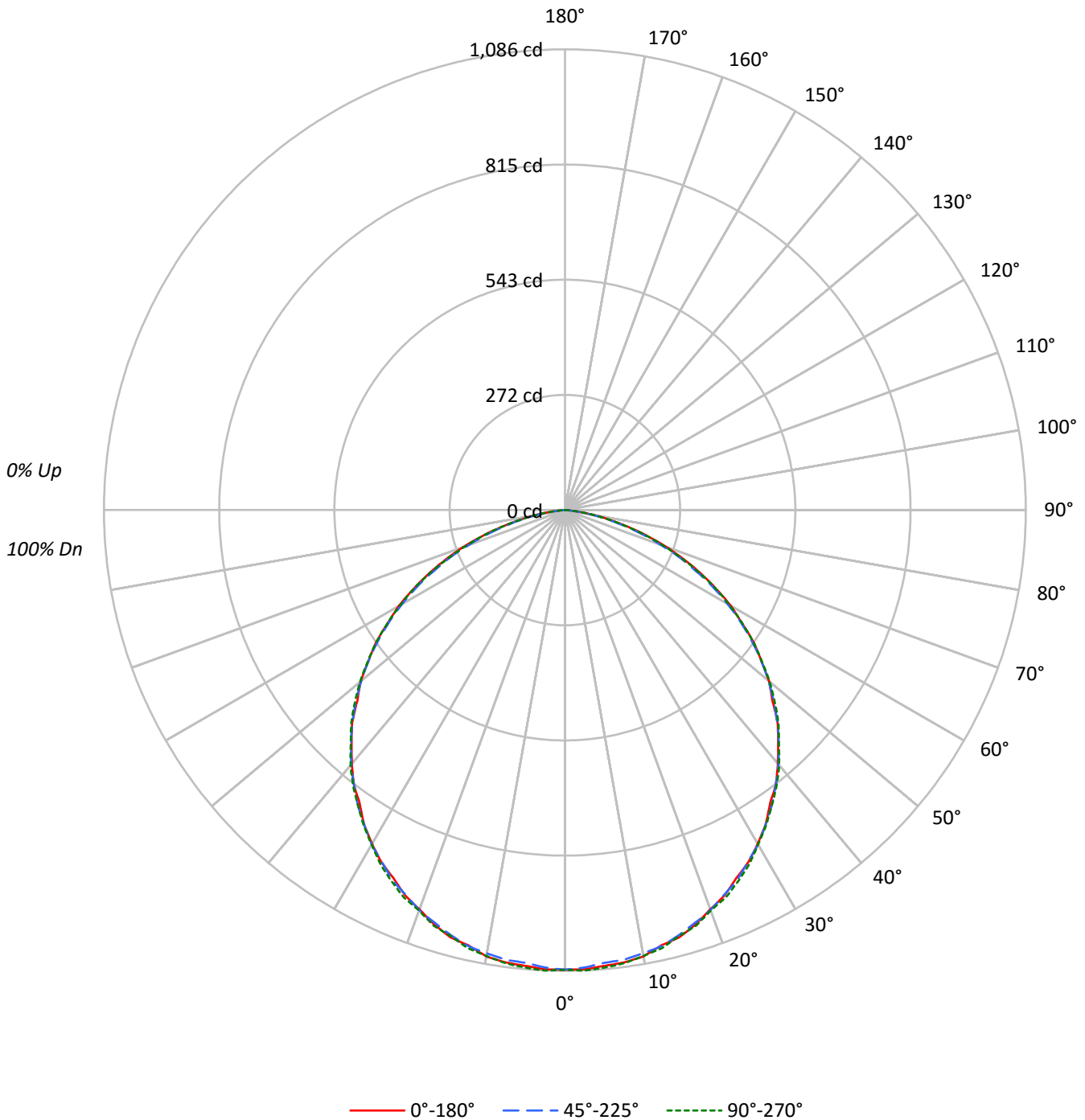
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2932.5 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 24.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2915	2915	2915
5°	2912	2893	2924
10°	2918	2899	2915
15°	2904	2890	2895
20°	2868	2874	2877
25°	2840	2855	2867
30°	2823	2829	2829
35°	2769	2793	2793
40°	2742	2749	2760
45°	2698	2694	2710
50°	2629	2621	2638
55°	2548	2520	2544
60°	2428	2384	2412
65°	2247	2176	2228
70°	2004	1899	1964
75°	1627	1531	1606
80°	1125	1046	1110
85°	537	472	506



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	3.5
10°-20°	293.1	10.0
20°-30°	443.0	15.1
30°-40°	531.7	18.1
40°-50°	547.1	18.7
50°-60°	482.3	16.4
60°-70°	343.9	11.7
70°-80°	163.4	5.6
80°-90°	25.4	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	838.6	28.6
0°-40°	1370.3	46.7
0°-60°	2399.8	81.8
0°-90°	2932.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2932.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1083	1083	1083	1083	1083	
5°	1078	1078	1071	1079	1082	103
15°	1042	1038	1037	1040	1039	293
25°	956	960	962	964	966	442
35°	843	849	850	854	850	530
45°	709	712	708	712	712	544
55°	543	543	537	540	542	483
65°	353	351	342	347	350	349
75°	156	156	147	149	154	168
85°	17	16	15	15	16	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1083.3	1083.3	1083.3	1083.3	1083.3
2.5°	1083.3	1081.3	1079.2	1082.3	1086.4
5°	1078.2	1078.2	1071.0	1079.2	1082.3
7.5°	1075.1	1069.0	1069.0	1073.1	1077.2
10°	1068.0	1061.8	1060.8	1064.9	1066.9
12.5°	1050.6	1050.6	1052.6	1053.6	1057.7
15°	1042.4	1038.3	1037.3	1040.3	1039.3
17.5°	1024.0	1020.9	1019.9	1026.0	1027.1
20°	1001.5	1002.5	1003.5	1004.5	1004.5
22.5°	983.1	984.1	981.0	991.2	989.2
25°	956.5	959.5	961.6	963.6	965.7
27.5°	936.0	934.0	934.0	938.1	941.1
30°	908.4	907.4	910.4	912.5	910.4
32.5°	879.7	880.8	879.7	882.8	881.8
35°	842.9	849.1	850.1	854.2	850.1
37.5°	816.3	816.3	816.3	819.4	819.4
40°	780.5	783.6	782.6	788.7	785.6
42.5°	743.7	746.8	745.7	752.9	746.8
45°	708.9	712.0	707.9	712.0	712.0
47.5°	662.9	668.0	667.0	674.1	671.1
50°	628.1	632.2	626.1	629.1	630.1
52.5°	583.1	587.2	583.1	585.1	585.1
55°	543.2	543.2	537.1	540.1	542.2
57.5°	494.1	497.2	491.0	493.1	495.1
60°	451.1	450.1	442.9	444.0	448.1
62.5°	402.0	401.0	393.8	394.9	401.0
65°	352.9	350.9	341.7	346.8	349.9
67.5°	303.8	302.8	293.6	294.6	298.7
70°	254.7	253.7	241.4	245.5	249.6
72.5°	204.6	203.6	194.4	197.4	202.5
75°	156.5	155.5	147.3	149.4	154.5
77.5°	113.5	110.5	105.4	108.4	111.5
80°	72.6	72.6	67.5	70.6	71.6
82.5°	39.9	39.9	37.8	38.9	39.9
85°	17.4	16.4	15.3	15.3	16.4
87.5°	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)